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*Admitted only in Maryland

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*Practice Limited to
Federal Agencies

March 28, 2003

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Group Art Unit 1652

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Utility Patent Application

Appl. No. 10/005,647; Filed: December 7, 2001

For:

Glucuronyl C5-Epimerase, DNA Encoding

the Same and Uses Thereof

Inventors:

Jalkanen et al.

Our Ref:

1708.0280002/MAC/MBT

RECEIVED

APR 0 1 2003

Sir:

Transmitted herewith for appropriate action are the following documents:

TECH CENTER 1600/2900

- 1. Second Supplemental Information Disclosure Statement;
- 2. Form PTO-1449 (3 sheets citing 8 documents);
- 3. 8 documents attached cited in Form PTO-1449; and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michele A. Cimbala

Attorney for Applicants
Registration No. 33,851

michel A. Caribas

MAC/MBT/lam Enclosures

SKGF DC1:109208.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Jalkanen et al.

Appl. No. 10/005,647

re application of:

Filed: December 7, 2001

For: Glucuronyl C5-Epimerase, DNA **Encoding the Same and Uses Thereof**

Confirmation No. 9088

Art Unit:

1652

Examiner:

C. Patterson

Atty. Docket: 1708.0280002/MAC/MBT

Second Supplemental Information Disclosure Statement ECEIVED

Commissioner for Patents Washington, D.C. 20231

APR 0 1 2003

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Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed on August 19, 2002 in connection with the above-captioned application. A copy of each document is also provided.

WO 01/38507, an abstract for which is cited herein as Document AR4, was cited as Document AL1 in the First Supplemental Information Disclosure Statement filed August 19, 2002.

Full length articles cited in Documents AT2, AR3, AS3, AT3, and AR4 are submitted herewith or have previously been submitted to the U.S. Patent and Trademark Office.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not

Jalkanen et al. Appl. No. 10/005,647

- 2 -

in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michele A. Cimbala

Attorney for Applicants

michel A. Cambala

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Date: 3/28/00

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Page 1 of 3

FORM PTO-1449

SECOND SUPPLEMENTAL

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APPLICANT Jalkanen, et al.	
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Hagner-McWhirter, Å. et al., "Biosynthesis of heparin/hepa studies of the glucuronyl C5-epimerase with N-sulfated der Esherichia coli K5 capsular polysaccharide as substrates," 171, Oxford University Press (February 2000)								atives of	the	
	AS	2	Hagner-McWhirter, Å. et al., "Biosynthesis of heparin/heparan sulphate: mechanism of epimerization of glucuronyl C-5," Biochem J. 347:69-75, London Portland Press On Behalf Of The Biochemical Society (April 2000)							
	AT	<u>2</u>	Nagase, T. et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XII. The Complete Sequences of 100 New cDNA Clones from Brain Which Code for Large Proteins in vitro," DNA Res. 5:355-364, Tokyo Kazusa DNA Research Institute and Universal Academy Press (1998)							
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Page 2 of 3

TRADES

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1708.0280002/MAC/MBT

APPLICATION NO. 10/005,647

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Jalkanen, et al.

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	AS	<u>3</u>	D-glucure No. 0187	ronyl C5-epimerase (EC 5.1.3) amino acid sequence (bovine), Accessi 756, Database EBI [Online](January 1998)						
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	AS	4	Dialog File 351, Accession No. 2001-381292/200140, Derwent WPI English language abstract for WO 01/38507 (May 31, 2001).							
	AT	International Search Report for International Application No. PCT/FI01/01068 mailed on December 9, 2002.								
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